Articulated Grabber

Kit contains:

- 3 jumbo craft sticks
- 2 8-inch strips of cardboard
- 3 4-inch strips of cardboard
- 4 brass fasteners
- 2 pool noodle fragments
- 1 rubber band
- string

You will need: a hole punch or pin, tape, and glue.

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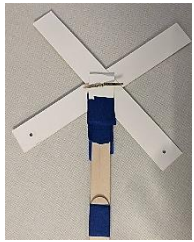
INSTRUCTIONS

Step 1. Tape the three craft sticks together to form a mega stick.

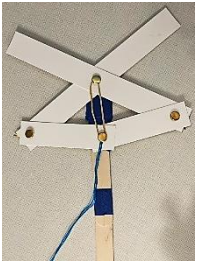
Step 2. Find the 4-inch carboard strip with the line down the center. Fold it in half along the line. Tape it to the mega stick such that the dot part of the cardboard is sticking out.

Step 3. Poke holes through all of the dots on the cardboard. Yes, this does mean you will go through two layers on the mega stick.

Step 4. Make an **X** with the 8-inch strips of cardboard. Stick the brass fastener through the center. Continue through the holes on mega stick's cardboard. Spread the prongs.



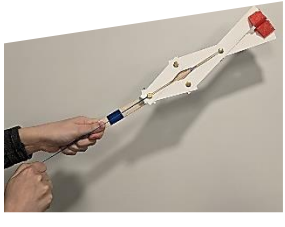
Step 5. Use brass fasteners to attach 4-inch strips of cardboard to the ends of the big X. Connect the loose ends of those strips with the last fastener.



Step 6. Loop the rubber band around the center two fasteners as shown.

Step 7. Loop the middle of the string around the bottom-most fastener. When you hold the mega stick in one hand and pull the string with the other, your grabber opens and closes.

Step 8. The two pool noodle fragments each have a slit in the smaller arc. Slide one onto each pinchy end of your grabber. Position for optimal grip. Glue to secure.



SIMPLE MACHINES

Simple machines are devices with no, or very few, moving parts that make work easier. The six basic simple machines are: the lever, the inclined plane, the wedges, the pulley, the wheel and axle, and the screw.

Like a seesaw or a pair of scissors, our articulated grabbers are an example of a **first-class lever**. First-class levers have the **fulcrum** between the **load** and the **effort**.